

Application No. 10/698,391
Attorney Docket No. DP-977 US (MAR.092)

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AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) Mobile radio equipment, comprising:
 - a radio transmitter/ receiver for transmitting/ receiving radio data;
 - a transmission unit for converting the received data received by the radio transmitter/ receiver;
 - an application unit for executing applications;
 - a decoder for decoding the data output from the transmission unit;
 - a memory for storing the decoded data output from the decoder;
 - an input/ output section for inputting/ outputting the decoded data output from the decoder;
 - a load data output section for outputting the decoded data output from the decoder as load data;
 - a load data input section for inputting the decoded data output from the decoder as load data;
 - a judge section for judging the load data on a preset threshold value; and
 - a transmission controller for controlling transmission rate based on a judgment made by the judge section.
2. (Currently Amended) Mobile radio equipment, comprising:
 - a radio transmitter/ receiver for transmitting/ receiving radio data;
 - a transmission unit for converting the received data received by the radio transmitter/

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receiver;

an application unit for executing applications;

a decoder for decoding the data output from the transmission unit;

a memory for storing the decoded data output from the decoder;

an input/ output section for inputting/ outputting the decoded data output from the decoder;

a load data output section for outputting the decoded data output from the decoder as load data;

a load data input section for inputting the decoded data output from the decoder as load data;

a judge section for judging the load data on a preset threshold value and for judging whether or not a frame loss has occurred in the decoded data; and

a transmission controller for controlling transmission rate based on a judgment made by the judge section.

3. (Previously Presented) The mobile radio equipment claimed in claim 1, wherein the judge section includes a comparator for comparing the load data with the threshold value in order to judge whether or not the amount of the data is within a capacity of the mobile radio equipment to process.

4. (Previously Presented) The mobile radio equipment claimed in claim 2, wherein the judge section includes a comparator for comparing the load data with the threshold value in order to judge whether or not the amount of the data is within a capacity of the mobile radio

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equipment to process.

5. (Currently Amended) The mobile radio equipment claimed in claim 1, wherein:
the judge section includes a comparator for comparing the load data with the threshold values
in order to judge whether or not the amount of the data is within a capacity of the mobile
radio equipment to process.

6. (Currently Amended) The mobile radio equipment claimed in claim 2, wherein:
the judge section includes a comparator for comparing the load data with the threshold values
in order to judge whether or not the amount of the data is within a capacity of the mobile
radio equipment to process.

7. (Previously Presented) The mobile radio equipment claimed in claim 1, wherein:
the judge section includes a comparator for comparing the load data input from the
decoder with the threshold values in order to judge whether or not the amount of the data is
within a capacity of the mobile radio equipment to process;

the transmission controller requests a base station to reduce the data transmission rate
when the load data exceeds the threshold value; and

the transmission controller requests the base station to increase the data transmission
rate when the load data is below the threshold value.

8. (Previously Presented) The mobile radio equipment claimed in claim 2, wherein:
the judge section includes a comparator for comparing the load data input from the

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decoder with the threshold values in order to judge whether or not the amount of the data is within a capacity of the mobile radio equipment to process;

the transmission controller requests a base station to reduce the data transmission rate when the load data exceeds the threshold value; and

the transmission controller requests the base station to increase the data transmission rate when the load data is below the threshold value.

9. (Previously Presented) The mobile radio equipment claimed in claim 1, wherein:

the judge section is provided with two threshold values, one for judging whether or not the load data is beyond a decoding capability of the decoder, and the other for judging whether or not the load data is beneath the decoding capability;

the judge section includes a comparator for comparing the load data input from the decoder with the threshold values in order to judge whether or not the amount of the data is within the capacity of the mobile radio equipment to process;

the transmission controller requests a base station to reduce the data transmission rate when the load data exceeds one of the threshold values; and

the transmission controller requests the base station to increase the data transmission rate when the load data is below the other threshold value.

10. (Previously Presented) The mobile radio equipment claimed in claim 2, wherein:

the judge section is provided with two threshold values, one for judging whether or not the load data is beyond a decoding capability of the decoder, and the other for judging whether or not the load data is beneath the decoding capability;

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the judge section includes a comparator for comparing the load data input from the decoder with the threshold values in order to judge whether or not the amount of the data is within the capacity of the mobile radio equipment to process;

the transmission controller requests a base station to reduce the data transmission rate when the load data exceeds one of the threshold value; and

the transmission controller requests the base station to increase the data transmission rate when the load data is below the other threshold value.

11. (Currently Amended) A transmission rate controlling method of mobile radio equipment for controlling a rate of radio data transmission between mobile radio equipment and a base station, the method comprising:

- ~~— a decoding step for decoding encoded data;~~
- ~~— a judging step for judging whether or not decoding has been performed in time based on whether buffer load data exceeds a preset value; and~~
- ~~— a transmission controlling step for controlling the rate of transmission to/ from a base station if the ~~judging step determines that the~~ decoding has not been performed in time.~~

12. (Currently Amended) A transmission rate controlling method of mobile radio equipment for controlling a rate of radio data transmission between mobile radio equipment and a base station, the method comprising:

- ~~— a decoding step for decoding encoded data according to the encoded data input into a decoder;~~
- ~~— a judging step for judging whether or not decoding has been performed in time based on~~

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whether load data exceeds a preset value;

~~— a transmission controlling step for controlling the rate of transmission to/ from a base station if the judging step determines that the decoding has not been performed in time; and~~
~~— an inputting/ outputting step for inputting/ outputting the decoded data output from the decoder in a format suitable for the input data.~~

13. (Currently Amended) A transmission rate controlling method of mobile radio equipment for controlling a rate of radio data transmission between mobile radio equipment and a base station, the method comprising:

~~a decoding step for decoding encoded data;~~
~~— a detecting step for detecting whether or not the decoding result is normal;~~
~~— a judging step for judging whether or not decoding has been performed in time based on~~
whether load data exceeds a preset value; and
~~— a transmission controlling step for controlling the rate of transmission to/ from a base station if the judging step determines that the decoding has not been performed in time.~~

14. (Currently Amended) A transmission rate controlling method of mobile radio equipment for controlling a rate of radio data transmission between mobile radio equipment and a base station, the method comprising:

~~— a decoding step for decoding encoded data according to the encoded data input into a decoder;~~
~~— a detecting step for detecting whether or not the decoding result is normal;~~
~~— a judging step for judging whether or not decoding has been performed in time based on~~

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whether load data exceeds a preset value;

~~— a transmission controlling step for controlling the rate of transmission to/ from a base station if the judging step determines that the decoding has not been performed in time; and~~
~~— an inputting/ outputting step for inputting/ outputting the decoded data output from the decoder in a format suitable for the input data.~~

15.-18. (Cancelled)

19. (Currently Amended) The transmission rate controlling method claimed in claim 11, wherein the ~~transmission controlling step~~ includes;

~~a process of requesting the base station to reduce the data transmission rate when the load data exceeds the threshold value at the comparing step[[.]]; and a process of~~
requesting the base station to increase the data transmission rate when the load data is below the threshold value.

20. (Currently Amended) The transmission rate controlling method claimed in claim 12, wherein the ~~transmission controlling step~~ includes;

~~a process of requesting the base station to reduce the data transmission rate when the load data exceeds the threshold value at the comparing step[[.]]; and~~
~~a process of requesting the base station to increase the data transmission rate when the load data is below the threshold value.~~

21. (Currently Amended) The transmission rate controlling method claimed in claim 13,

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wherein the transmission controlling step includes

~~a process of requesting the base station to reduce the data transmission rate when the load data exceeds the threshold value at the comparing step[[.]]; and~~

~~a process of requesting the base station to increase the data transmission rate when the load data is below the threshold value.~~

22. (Currently Amended) The transmission rate controlling method claimed in claim 14, wherein the transmission controlling step includes;

~~a process of requesting the base station to reduce the data transmission rate when the load data exceeds the threshold value at the comparing step[[.]]; and~~

~~a process of requesting the base station to increase the data transmission rate when the load data is below the threshold value.~~

23. (Currently Amended) The transmission rate controlling method claimed in claim 11, wherein the ~~judging step for judging whether or not decoding has been performed in time~~ comprises judging whether or not decoding has been performed without delay load data comprises an amount by which a decoder buffer is filled.

24. (Currently Amended) The transmission rate controlling method claimed in claim 12, wherein the load data comprises an amount by which a decoder buffer is filled ~~judging step for judging whether or not decoding has been performed in time~~ ~~comprises judging whether or not decoding has been performed without delay.~~

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25. (Currently Amended) The transmission rate controlling method claimed in claim 13,
wherein the load data comprises an amount by which a decoder buffer is filled~~judging step~~
~~for judging whether or not decoding has been performed in time comprises judging whether~~
~~or not decoding has been performed without delay.~~

26. (Currently Amended) The transmission rate controlling method claimed in claim 14,
wherein the load data comprises an amount by which a decoder buffer is filled~~judging step~~
~~for judging whether or not decoding has been performed in time comprises judging whether~~
~~or not decoding has been performed without delay.~~